

# Navigating the Generative AI era: Introducing the AI assessment scale for ethical GenAI assessment (Supplementary Material)

The AI Assessment Scale provides a structured approach for HEIs to integrate GenAI into their assessment strategies with each level specifying the extent of allowed GenAI use and the responsibilities of the student. These supplementary materials provide examples for a variety of disciplines. They are not designed to be prescriptive: the Scale can be readily adapted for various subjects and assessment types.

## The AI Assessment Scale

<b>1</b>	<b>NO AI</b>	The assessment is completed entirely without AI assistance. This level ensures that students rely solely on their knowledge, understanding, and skills. <b>AI must not be used at any point during the assessment.</b>
<b>2</b>	<b>AI-ASSISTED IDEA GENERATION AND STRUCTURING</b>	AI can be used in the assessment for brainstorming, creating structures, and generating ideas for improving work. <b>No AI content is allowed in the final submission.</b>
<b>3</b>	<b>AI-ASSISTED EDITING</b>	AI can be used to make improvements to the clarity or quality of student created work to improve the final output, but no new content can be created using AI. <b>AI can be used, but your original work with no AI content must be provided in an appendix.</b>
<b>4</b>	<b>AI TASK COMPLETION, HUMAN EVALUATION</b>	AI is used to complete certain elements of the task, with students providing discussion or commentary on the AI-generated content. This level requires critical engagement with AI generated content and evaluating its output. <b>You will use AI to complete specified tasks in your assessment. Any AI created content must be cited.</b>
<b>5</b>	<b>FULL AI</b>	AI should be used as a 'co-pilot' in order to meet the requirements of the assessment, allowing for a collaborative approach with AI and enhancing creativity. <b>You may use AI throughout your assessment to support your own work and do not have to specify which content is AI generated.</b>

## Example assessment task advice

The AI Assessment Scale is used to clearly articulate when and how generative AI might be used in a given assessment. The AI Assessment Scale is intended to be used *before* assessment to provide clarity for students on the expectations for Generative AI use. It may also be used after assessment as a reference for students' commentaries, annotations, and acknowledgements of how GenAI has been used.

The following are examples of different levels for essay-based tasks in a Language or Humanities subject:

Task: Essay response	Level
<b>NO AI:</b> You must not use any Generative AI tools in the creation of your work. Initial brainstorming and idea generation must be completed by hand during tutorial group discussions.	1
<b>AI ASSISTED IDEA GENERATION AND STRUCTURING:</b> Generative AI may be used for the refinement and development of ideas, or to suggest additional ideas for inclusion in your work.	2
<b>AI-ASSISTED EDITING:</b> Generative AI may be used to review completed drafts for spelling, punctuation, grammar, and syntax.	3
<b>AI TASK COMPLETION, HUMAN EVALUATION:</b> Using the Generative AI tool of your choice, develop the most appropriate answer to each of the tasks below, and then critically evaluate the response provided by the AI tool.	4
<b>FULL AI:</b> You are invited to use Generative AI tools to support you in the production of this piece of work and will be marked on the assumption that these tools are available for your use. There are no restrictions on the tools you can choose.	5

In other modes, including image, audio and video, an assessment may be articulated as follows:

Task: Multimodal assessment	Level
<b>NO AI:</b> This assessment must be completed by hand under supervised conditions	1
<b>AI-ASSISTED IDEA GENERATION AND STRUCTURING:</b> Generative AI may be used to create a folio for inspiration, "mood boards", colour palettes, etc. None of this material is acceptable for your final submission	2
<b>AI-ASSISTED EDITING:</b> Creation of initial images should be completed by hand without the use of technology. These original drafts may then be realised using the Generative AI tools of your choice	3
<b>AI TASK COMPLETION, HUMAN EVALUATION:</b> Following the development of your original work, develop iterations of your main design using Generative AI tools and provide a written comparison between the pieces.	4
<b>FULL AI:</b> You may use Generative AI tools to support in any parts of your multimodal work. For example, you may wish to use GenAI to create audio tracks or animations to support your ideas.	5

## Examples of tasks in various disciplines

The following examples demonstrate how tasks might be conceptualised at each level of the AI Assessment Scale in a variety of disciplines.

### *Examples of “Level 1” assessment tasks in various disciplines*

- Mathematics: solving equations and problems without the aid of any GenAI tools which might support with calculators or access to other devices
- Literature: the completion of draft writing by hand under supervised conditions
- Computer science: the demonstration of theoretical knowledge through discussion

### *Examples of “Level 2” assessment tasks in various disciplines:*

- History: Students could use GenAI to brainstorm potential topics for a research paper, then select one and complete the research without further AI assistance.
- Arts and Design: Students might employ GenAI, including image generation, to suggest themes or concepts for a project, but the actual design and execution must be done by the student.
- Business Studies: Students may use GenAI to generate business ideas or strategies, but the business plan and presentation must be developed without AI input.

### *Examples of “Level 3” assessment tasks in various disciplines:*

- Social Sciences: After drafting an essay on societal norms, students may use GenAI to refine the language and presentation, ensuring clarity.
- Creative Writing: After crafting a story or poem, students may use GenAI to polish the language, ensuring aspects such as flow and rhythm are consistent.
- Graphic Design: Students may use generative fill and expand tools to edit an original graphic, or might use tools such as GenAI assisted remove/colorise/colour swap.

### *Examples of “Level 4” assessment tasks in various disciplines:*

- Art and Design: Students use GenAI to generate artwork or design concepts, followed by a comprehensive critique of the generated piece, assessing its aesthetic, cultural, and technical aspects.
- Data Science: Students may use GenAI to generate data sets or simulate scenarios. They would need to evaluate the reliability, relevance, and potential biases in the AI-generated data.
- Literature: After using GenAI to generate a story or narrative, students provide an in-depth analysis of the plot structure, character development, and thematic elements, weighing them against traditional literary standards and cultural conventions.
- Philosophy: GenAI could be used to generate arguments or perspectives on a philosophical topic, with students critically dissecting the logic, coherence, and ethical implications of the AI model’s position.

### *Examples of “Level 5” assessment tasks in various disciplines:*

- Music Composition: Students collaborate with GenAI to compose pieces, with then tools suggesting melodies or instrumentations through audio generation applications and students refining them to align with their final vision.
- Architectural Design: Students might set design parameters or themes, and then iterate on GenAI developed architectural concepts using image generation.

- Multimedia Projects: Students may work with GenAI on multimedia presentations, with students using a variety of multimodal GenAI tools throughout the process to create layouts, animations, or ideas.

## Complete task advice

Drawing together the examples above, the following tables offer discipline-specific examples of how AI might (or might not) be used at each level of the scale alongside typical assessment tasks and example student prompts.

This advice may be provided to students and discussed prior to completion of the assessment task, and might also be referred to in the students' commentaries, annotations, or acknowledgements of GenAI use.

### Business/Management

Scale Level	AI Allowed in Submission	Description	Typical Assessment Task	Example Student Prompt for GenAI tool
1. No AI	No	The assessment is completed entirely without AI assistance. This level ensures that students rely solely on their knowledge, understanding, and skills.  <b>AI must not be used at any point during the assessment.</b>	Analyse a company's strategic positioning, without consulting AI or digital resources, within a 3-hour exam period.	(No AI engagement at this level)
2. AI Assisted Idea Generation and Structuring		AI can be used in the assessment for brainstorming, creating structures, and generating ideas for improving work.  <b>No AI content is allowed in the final submission.</b>	Develop a marketing plan for a new product. Use AI in the planning stages but not in the final submission.  Create a structure for a business strategy using AI, but do not include it in the final submission.	"Generate potential strategies for positioning our product in a competitive market." "Create a structure for my business strategy on market expansion."
3. AI Assisted Editing	Yes	AI can be used to make improvements to the clarity or quality of student created work to improve the final output, but no new content can be created using AI.  <b>AI can be used, but your original work with no AI content must be provided in an appendix.</b>	Write a business report on emerging trends in eCommerce. Use AI to edit language but not for content creation.	"Review and suggest language improvements for my draft report on eCommerce trends."
4. AI Task Completion, Human Evaluation		AI is used to complete certain elements of the task, with students providing discussion or commentary on the AI-generated content. This level requires critical engagement with AI-generated content and evaluating its output.  <b>You will use AI to complete specified tasks in your assessment. Any AI-created content must be cited.</b>	Use AI to create a series of social media posts, then evaluate their effectiveness in a marketing strategy.	"Generate a series of social media posts promoting our new product line, and I will evaluate them."
5. Full AI		AI can be used as a 'co-pilot' in order to meet the requirements of the assessment, allowing for a collaborative approach with AI and enhancing creativity.  <b>You should use AI throughout your assessment to support your own work and do not have to specify which content is AI generated.</b>	Collaborate with AI to develop a comprehensive business proposal for expanding into a new market.	"Help me integrate market research, competitor analysis, and financial projections into a business proposal for entering the Asian market."

# Computer Science

Scale Level	AI Allowed in Submission	Description	Typical Assessment Task	Example Student Prompt for GenAI tool
1. No AI	No	The assessment is completed entirely without AI assistance. This level ensures that students rely solely on their knowledge, understanding, and skills.  <b>AI must not be used at any point during the assessment.</b>	Implement a sorting algorithm without consulting AI or digital resources, within a 3-hour exam period.	(No AI engagement at this level)
2. AI Assisted Idea Generation and Structuring		AI can be used in the assessment for brainstorming, creating structures, and generating ideas for improving work. <b>No AI content is allowed in the final submission.</b>	Design a software architecture for a new application. Use AI to create the structure but not in the final submission. Create a structure for a database using AI, but do not include it in the final submission.	"Generate potential architectures for a cloud-based application." "Create a structure for my relational database design."
3. AI Assisted Editing	Yes	AI can be used to make improvements to the clarity or quality of student created work to improve the final output, but no new content can be created using AI. <b>AI can be used, but your original work with no AI content must be provided in an appendix.</b>	Write code comments and documentation for a software project. Use AI to edit language but not for content creation.	"Review and suggest language improvements for my code comments and documentation."
4. AI Task Completion, Human Evaluation		AI is used to complete certain elements of the task, with students providing discussion or commentary on the AI-generated content. This level requires critical engagement with AI-generated content and evaluating its output. <b>You will use AI to complete specified tasks in your assessment. Any AI-created content must be cited.</b>	Use AI to create a series of cybersecurity rules, then evaluate their effectiveness in a network environment.	"Generate a series of firewall rules for a specific network configuration, and I will evaluate them."
5. Full AI		AI can be used as a 'co-pilot' in order to meet the requirements of the assessment, allowing for a collaborative approach with AI and enhancing creativity. <b>You should use AI throughout your assessment to support your own work and do not have to specify which content is AI generated.</b>	Collaborate with AI to develop a machine learning model for a specific task.	"Help me integrate different features and hyperparameters into a machine learning model for image recognition."

## Graphic Design/Illustration

Scale Level	AI Allowed in Submission	Description	Typical Assessment Task	Example Student Prompt for GenAI tool
1. No AI	No	The assessment is completed entirely without AI assistance. This level ensures that students rely solely on their knowledge, understanding, and skills. <b>AI must not be used at any point during the assessment.</b>	Sketch a design concept without consulting AI or digital resources, within a 3-hour studio session.	(No AI engagement at this level)
2. AI Assisted Idea Generation and Structuring		AI can be used in the assessment for brainstorming, creating structures, and generating ideas for improving work. <b>No AI content is allowed in the final submission.</b>	Design a new clothing line. Use AI for idea generation but not in the final submission. Create a structure for a multimedia art project using AI, but do not include it in the final submission.	"Generate potential themes for my clothing line inspired by nature." "Create a structural layout for my multimedia art installation."
3. AI Assisted Editing	Yes	AI can be used to make improvements to the clarity or quality of student created work to improve the final output, but no new content can be created using AI. <b>AI can be used, but your original work with no AI content must be provided in an appendix.</b>	Write an artist's statement for an exhibition. Use AI to edit language but not for content creation.	"Review and suggest language improvements for my artist's statement for my upcoming exhibition."
4. AI Task Completion, Human Evaluation		AI is used to complete certain elements of the task, with students providing discussion or commentary on the AI-generated content. This level requires critical engagement with AI-generated content and evaluating its output. <b>You will use AI to complete specified tasks in your assessment. Any AI-created content must be cited.</b>	Use AI to create digital textures for a 3D model, then evaluate their visual impact.	"Generate a series of digital textures for my 3D model of an urban environment, and I will evaluate their visual impact."
5. Full AI		AI can be used as a 'co-pilot' in order to meet the requirements of the assessment, allowing for a collaborative approach with AI and enhancing creativity. <b>You should use AI throughout your assessment to support your own work and do not have to specify which content is AI generated.</b>	Collaborate with AI to develop a virtual gallery for showcasing art pieces.	"Help me design and create a virtual gallery space that reflects the theme of my art collection."

## Hospitality Management/Tourism

Scale Level	AI Allowed in Submission	Description	Typical Assessment Task	Example Student Prompt for GenAI tool
1. No AI	No	The assessment is completed entirely without AI assistance. This level ensures that students rely solely on their knowledge, understanding, and skills.  <b>AI must not be used at any point during the assessment.</b>	Produce two dishes in a given time frame using recipes provided.	(No AI engagement at this level)
2. AI Assisted Idea Generation and Structuring		AI can be used in the assessment for brainstorming, creating structures, and generating ideas for improving work. <b>No AI content is allowed in the final submission.</b>	Develop an event concept for a product launch. Use AI for idea generation but not in the final submission.  Create a structure for a hospitality training program using AI, but do not include it in the final submission.	Generate ideas for a unique tourist attraction in a coastal city.  Create a curriculum structure for a hospitality training program.
3. AI Assisted Editing	Yes	AI can be used to make improvements to the clarity or quality of student created work to improve the final output, but no new content can be created using AI. <b>AI can be used, but your original work with no AI content must be provided in an appendix.</b>	Write a social media marketing plan for a hotel. Use AI to edit language but not for content creation.	Review and suggest language improvements for my marketing copy promoting our hotel's new spa services.
4. AI Task Completion, Human Evaluation		AI is used to complete certain elements of the task, with students providing discussion or commentary on the AI-generated content. This level requires critical engagement with AI-generated content and evaluating its output. <b>You will use AI to complete specified tasks in your assessment. Any AI-created content must be cited.</b>	Use AI to create three different travel blog posts on backpacking in Southeast Asia. Critically evaluate their accuracy and helpfulness.	Design a virtual tour of our beachfront resort, and I will evaluate the user experience.
5. Full AI		AI can be used as a 'co-pilot' in order to meet the requirements of the assessment, allowing for a collaborative approach with AI and enhancing creativity. <b>You should use AI throughout your assessment to support your own work and do not have to specify which content is AI generated.</b>	Collaborate with AI to create a full event manual for a culinary festival.	Help me coordinate the logistics, budgeting, and scheduling for a city-wide culinary festival.